

**ABSTRACT OF THE DISCLOSURE**

- For drivers of different sizes driving signal lines of different lengths, maximum transition time constraints are compared to signal transition times to determine whether a potential noise problem exists with respect to the signal lines.
- 5    Each driver size has a maximum line length and a maximum transition time associated with it. These maximum transition time constraints are used to determine whether the signal lines connected to respective drivers in the IC will have potential noise problems associated with them. For each signal line in the IC design, the signal transition time is determined and compared to the maximum transition time
- 10   constraint. If the signal transition time exceeds the maximum transition time constraint, a potential noise problem exists with respect to the signal line.